

SONY®



SONY - SP0088

エレクトロニックビューファインダー
ELECTRONIC VIEWFINDER

DXF-601/601CE

サービスマニュアル／補修部品表
SERVICE MANUAL

SAFETY RELATED COMPONENT WARNING

Components identified by shading and Δ marked on the schematic diagrams and parts list are critical to safe operation. Replace these components with SONY parts whose part numbers appear as shown in this manual or in supplements published by SONY.

X-RAY RADIATION WARNING

Be sure that parts replacement in the high voltage block and adjustments made to the high voltage circuits are carried out precisely in accordance with the procedures given in this manual.

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第1章

取り扱い説明

取り扱い説明書をそのまま
掲載しています。

DXF-601はソニーのCCDカラービデオカメラDXC-637に取り付けてお使いいただくためのエレクトロニックビューファインダー（白黒）です。ご使用の際は、カメラの取扱説明書も併せてご覧ください。

主な仕様

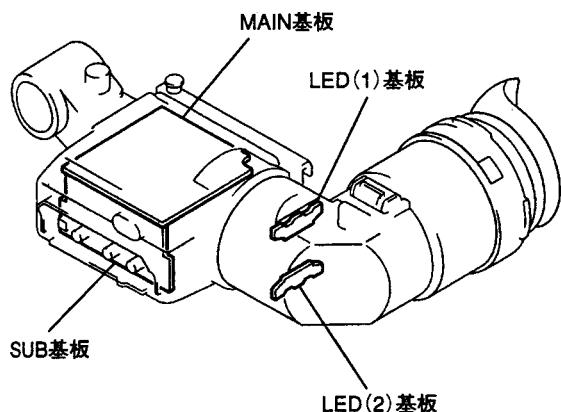
ブラウン管	1.5型、白黒
表示ランプ	REC/TALLY、BATT、SHUTTER、GAIN UP
解像度	600本
信号方式	EIA規格
電源電圧	DC12V
消費電力	2.1W
質量	約660g
最大外形寸法	236×85×219mm（幅/高さ/奥行き）

- このビューファインダーは日本国内用です。放送規格の異なる外国ではお使いになれません。
- この製品には保証書が添付されています。所定の事項の記入および記載内容をお確かめのうえ、大切に保存してください。
- 仕様および外観は改良のため予告なく変更することがあります。ご了承ください。

第2章

サービスインフォメーション

2-1. 主要基板配置図



2-2. 主要部品の交換方法

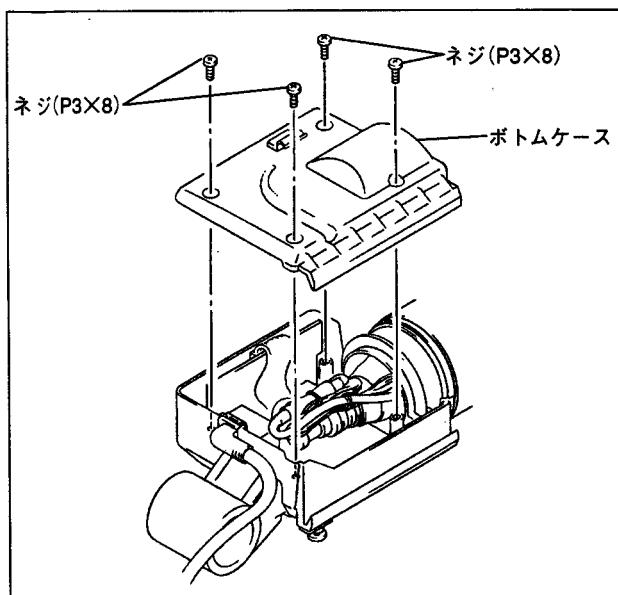
2-2-1. MAIN基板交換時の注意

MAIN基板を交換したときは、3-1-3. MAIN基板交換時の注意を参照して調整を行って下さい。

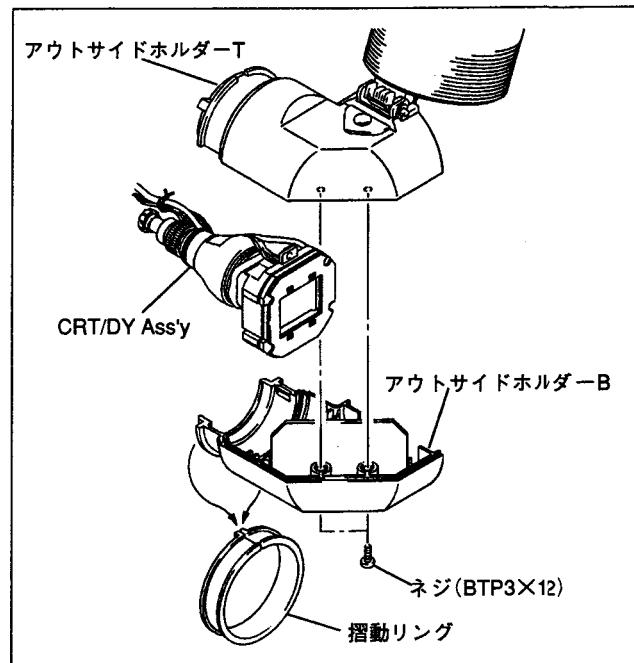
2-2-2. CRT/DY Ass'yの交換方法

注意：偏向ヨークを交換する場合は、CRT/DY Ass'yごと交換して下さい。

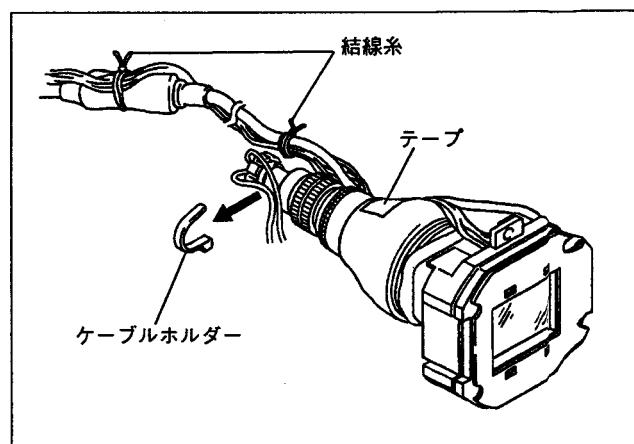
1. 図に示す4本のネジを外し、ボトムケースを取り外します。



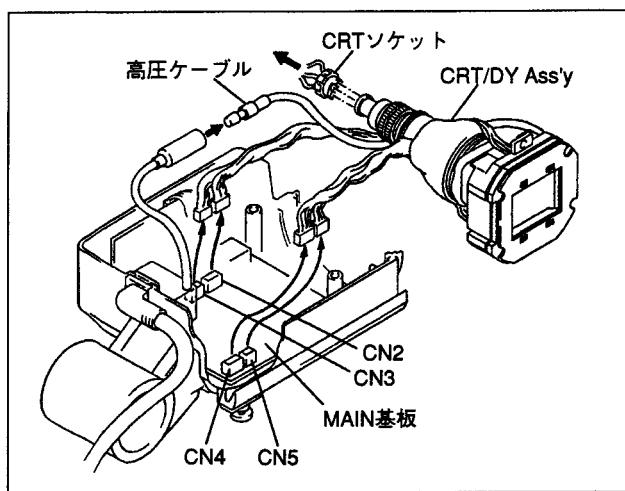
2. 図に示す摺動リングを外し、2本のネジを外してアウトサイドホルダーB/TよりCRT/DY Ass'yを外します。



3. CRT/DY Ass'yの図に示す結線糸、テープおよびケーブルホルダーを取ります。

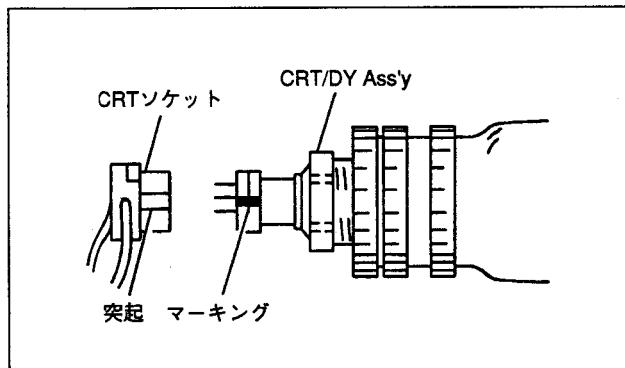


4. MAIN基板のCN2, 3, 4, 5のコネクターを外し、更に図に示す高圧ケーブルの端子を外します。そして、CRT/DY Ass'yからCRTソケットを外します。



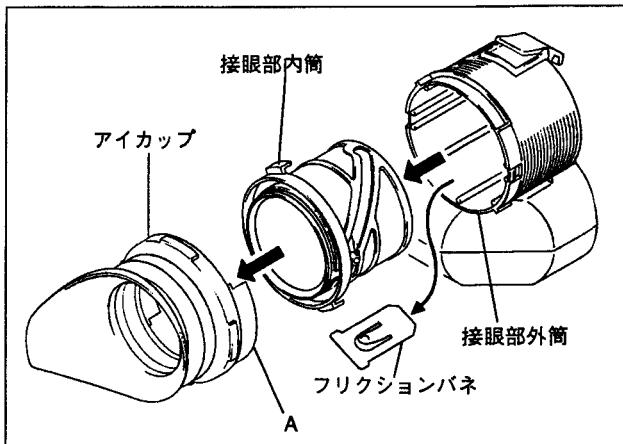
注意：CRTソケットは、CRT/DY Ass'yから真後ろにゆっくり引き抜くようにして下さい。そうしないとCRT/DY Ass'yのコネクターピンが折れ曲がる可能性があります。

5. 1~4の逆の手順で新しいCRT/DT Ass'yを取り付けます。
注意：CRTソケットをCRT/DY Ass'yに接続する時は、図に示すCRTソケットの突起とCRT/DY Ass'yのマーキング部が合うようにして接続して下さい。

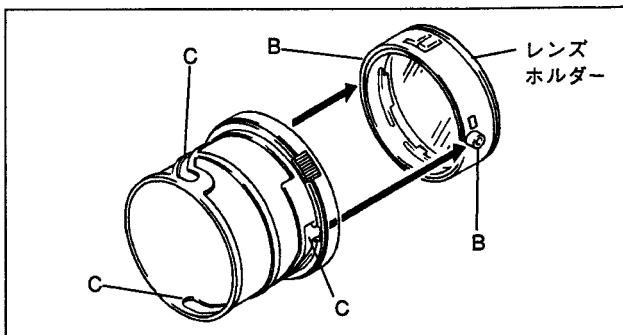


2-3. VFルーペの交換方法

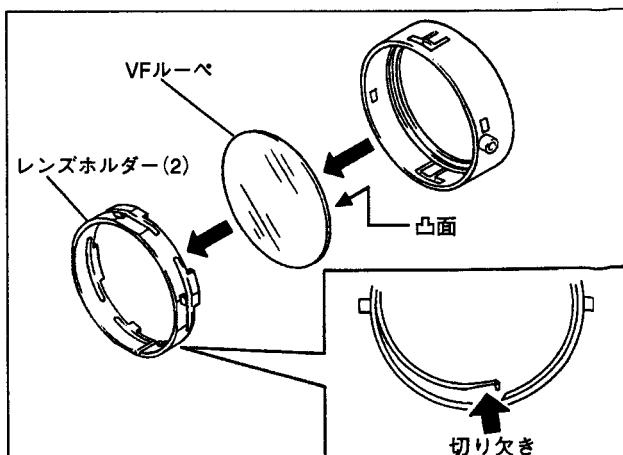
1. 図に示すA部と接眼部外筒の隙間にマイナスドライバーを差し込み、A部を持ち上げてアイカップを外します。そして、接眼部内筒を取り出します。
注意：この時フリクションバネも外れてしまうことがあります。



2. 図に示すB部を持ち、C部の溝に沿ってレンズホルダーを取り外します。



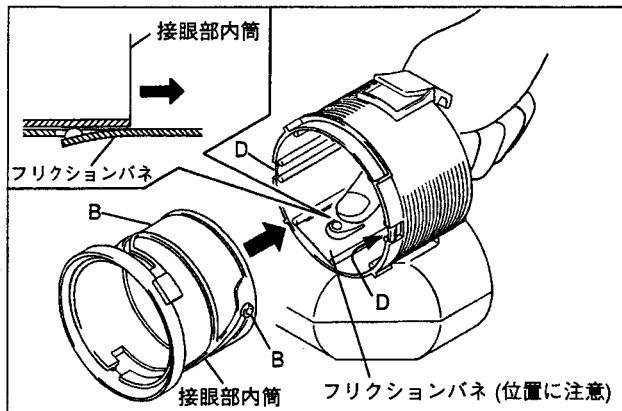
3. 図に示す切り欠き部の片方を外し、レンズホルダー(2)を引き抜き、VFルーペを外します。



- 1~3の逆の手順でVFルーペを交換します。

注意: ① VFルーペを取り付ける時は必ず凸凹の向きを確認して下さい。(手順2-3-3.参照)

② 接眼部内筒を取り付ける時はフリクションバネの挿入位置を確認し、フリクションバネを指で押えます。そして、図に示すB部の突起部とD部の切り欠き部を合わせて接眼部内筒を差し込みます。

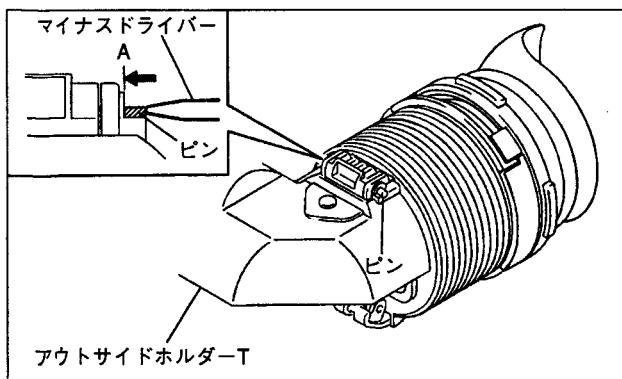


- 別売VFルーペ
別売VFルーペとして下記の2種類が用意されています。
対応する視度範囲を確認の上お求め下さい。

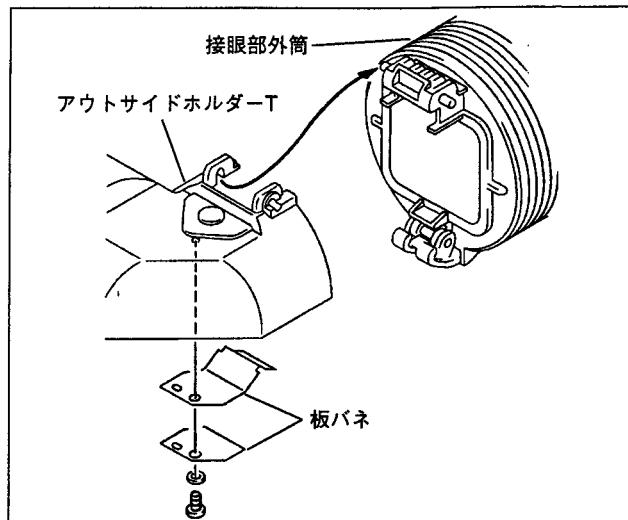
老視用VFルーペ;
 -2D~+1D (ソニー品番号 3-725-276-01)
 -0.5D~+3D (ソニー品番号 3-176-501-01)
 (参考)標準ルーペ; -3D~0D

2-4. アウトサイドホルダーTおよび接眼部外筒の交換方法

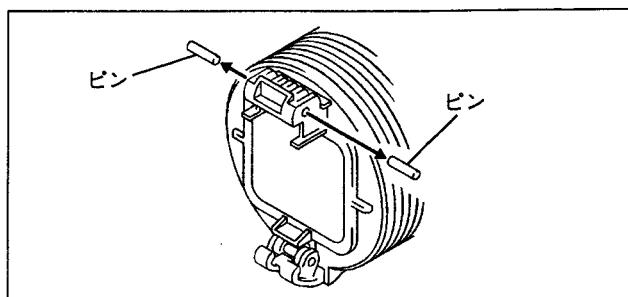
- 2-2-2項のCRT/DY Ass'yの交換方法を参照し、アウトサイドホルダーTを外します。
- 2本のピンをマイナスドライバーで図に示すA部まで押します。



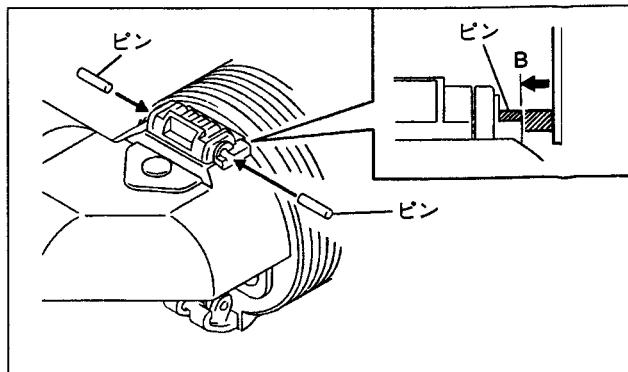
- 図に示すネジとワッシャーを外して、2本の板バネを外します。そして、矢印の方向へ持ち上げて、アウトサイドホルダーTと接眼部外筒を外します。



- 2本のピンを抜きます。



- 新しいアウトサイドホルダーTまたは接眼部外筒を交換します。そして、2本のピンを差し込み、マイナスドライバーで図に示すB部まで差し込みます。



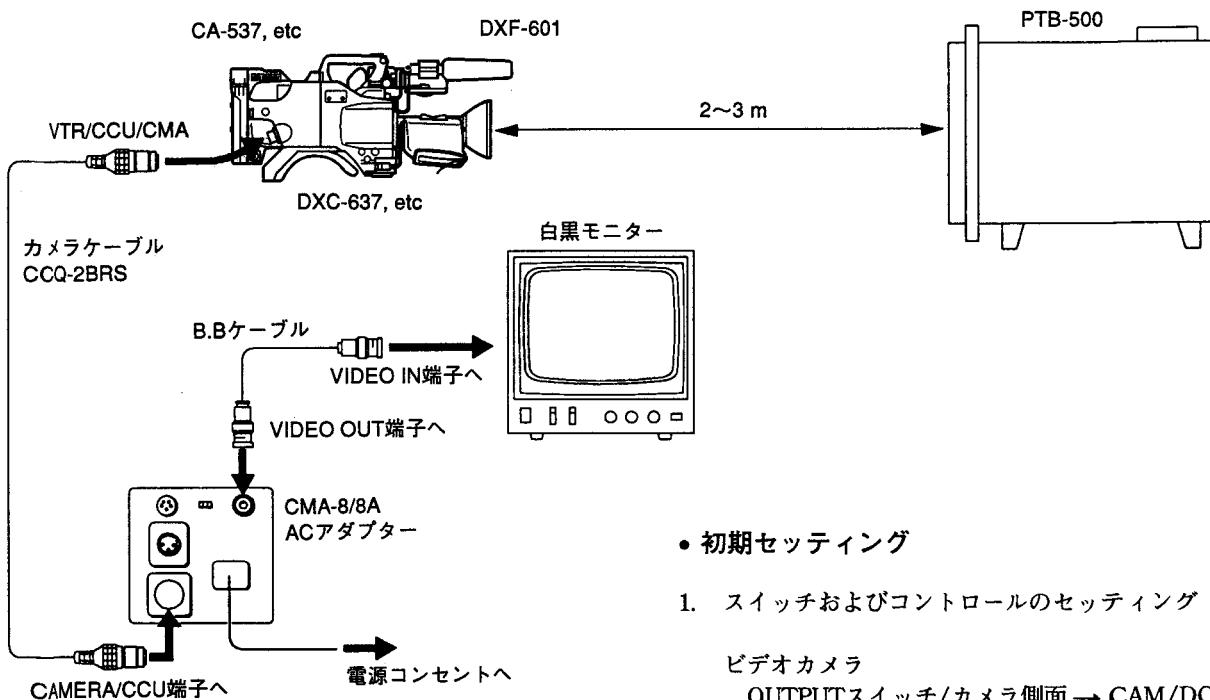
第3章 調整要項

3-1. 準備

3-1-1. 使用機器

1. パターンボックス PTB-500
ソニー部品番号 J-6029-140-B
2. 解像度チャート
ソニー部品番号 J-6026-100-A
3. ホワイトウインドウチャート
4. ビデオカメラ DXC-637等
5. カメラアダプター CA-537等
6. ACアダプター CMA-8/8A
7. カメラケーブル CCQ-2BRS
8. 白黒モニター PVM-91同等品
9. オシロスコープ
10. 波形モニター
11. デジタル電圧計

3-1-2. 接続および初期セッティング



• 初期セッティング

1. スイッチおよびコントロールのセッティング

ビデオカメラ

OUTPUTスイッチ/カメラ側面 → CAM/DCC OFF
GAINスイッチ/カメラ側面 → 0dB

ピューファインダー DXF-601

CONTRASTつまみ → 時計方向一杯
BRIGHTつまみ → メカニカルセンター

レンズ

IRIS AUTO/MANU → AUTO

2. 画出し準備

- (1) レンズズームで、解像度チャート棒とモニター画面のアンダースキャン画枠を一致させます。
- (2) レンズフォーカスで、モニター画面の解像度が最も良くなるようにします。

3-2. ビューファインダー系調整

3-2-1. +9.5V 調整

注意事項：測定点の電圧が規格値に対して±1%以上ずれる場合のみ調整を行って下さい。
この調整を行った場合は、調整要項の全項目を確認し下さい。

測定器：デジタル電圧計

測定点：TP1/MAIN基板

調整箇所：**●RV1(VO ADJ)**/MAIN基板

規格：+9.5±0.05 Vdc

3-2-2. 垂直ホールド調整

注意事項：

ビューファインダーDXF-601を取り付けているビデオカメラの種類が下記の場合は、MAIN基板のR66の抵抗を外してから調整を行って下さい。調整終了後、再度、MAIN基板のR66の抵抗を元の位置に取り付けて下さい。

- ・ビデオカメラがカメラアダプターCA-537以外の機器(VTR、CCU)と接続している場合
- ・ビデオカメラがUVW-100等の一体型ビデオカメラの場合

測定器：オシロスコープ

準備：
●RV7(V SIZE)/MAIN基板 → メカニカルセンター
(**●RV7(V SIZE)**/MAIN基板がマーキングされている場合は、廻さないで下さい。)

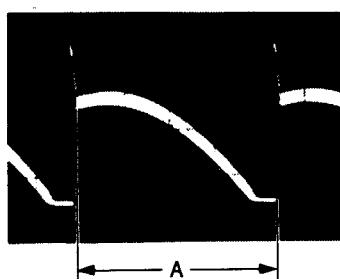
測定点：CN5-1ピン/MAIN基板

調整箇所：**●RV6(V HOLD)**/MAIN基板

規格：A = 25.6±0.3 ms

調整手順

レンズのRETボタンを押し、ビューファインダーをフリーラン状態(ビューファインダーにビデオ信号が入力されない状態)にし、規格を満足するように**●RV6(V HOLD)**/MAIN基板を調整します。



3-2-3. 水平ホールド調整

被写体：ホワイトウインドウチャート

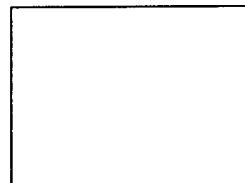
測定器：波形モニター、オシロスコープ

トリガ：CH2/オシロスコープ

準備：

1. ホワイトウインドウチャートを撮像し、モニター画像が全面白になるようにレンズズームを調整します。

モニター画面



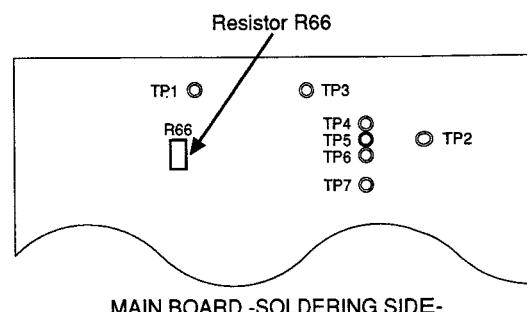
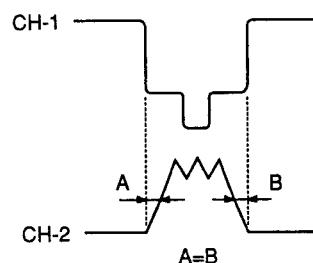
2. カメラのVIDEO OUT端子の白レベルが100±2 IREになるようにレンズ絞りを調整します。

測定点：CH1 TP5(H1)/MAIN基板

CH2 TP9(+H DEF)/MAIN基板

調整箇所：**●RV5(H HOLD)**/MAIN基板

調整：



3-2-4. ブライトキャリブレーション調整

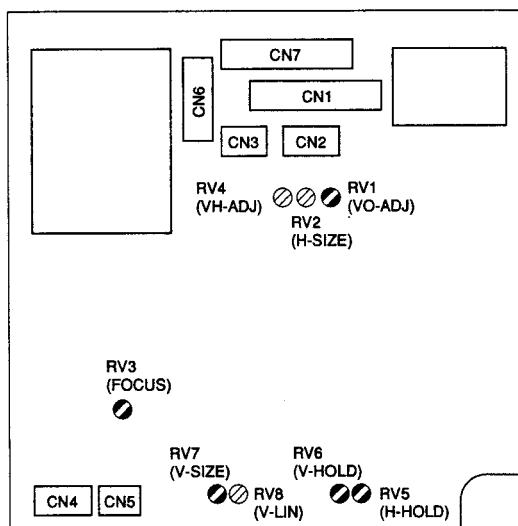
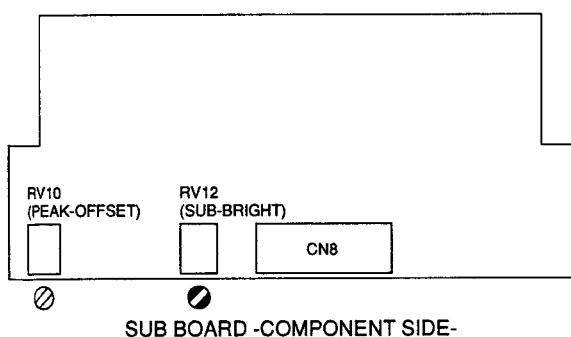
被写体：解像度チャート

準備：

1. BRIGHTつまみ(ビューファインダー)
→ 時計方向一杯○
2. CONTRASTつまみ(ビューファインダー)
→ 時計方向一杯○

調整：

●RV12(SUB BRIGHT)/SUB基板を時計方向一杯○から反時計方向へ廻していく、白黒階調の3段目までを黒につぶし、4段目が識別できるように調整します。



3-2-5. フォーカス調整

注意事項：

この調整と“3-2-6. 画枠調整”は互いに影響しあうので、両方の規格が満足されるまで繰り返し調整を行って下さい。

被写体：解像度チャート

測定器：波形モニター

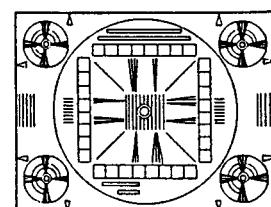
準備：

1. IRIS AUTO/MANU(レンズ) → MANU
2. BRIGHTつまみ(ビューファインダー)
→ メカニカルセンター
3. CONTRASTつまみ(ビューファインダー)
→ 時計方向一杯○
4. PEAKINGつまみ(ビューファインダー)
→ 反時計方向一杯○

調整：

1. 解像度チャート枠とモニター画面のアンダースキャン画枠が一致するようにレンズズームを調整します。

モニター画面



2. カメラのVIDEO OUT端子の白レベルが100±2 IREになるようにレンズ絞りを調整します。
3. ●RV3(FOCUS)/MAIN基板をビューファインダー画像のフォーカスが最も良くなる点に合わせます。

3-2-6. 画枠調整

注意事項：

この調整と“3-2-5. フォーカス調整”は互いに影響しあうので、両方の規格が満足されるまで繰り返し調整を行って下さい。

被写体：解像度チャート

測定器：波形モニター

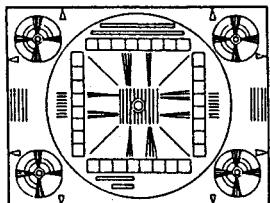
準備：

1. BRIGHTつまみ(ビューファインダー)
→メカニカルセンター
2. CONTRASTつまみ(ビューファインダー)
→メカニカルセンター
3. PEAKINGつまみ(ビューファインダー)
→反時計方向一杯○
4. アイカップを外します。

調整：

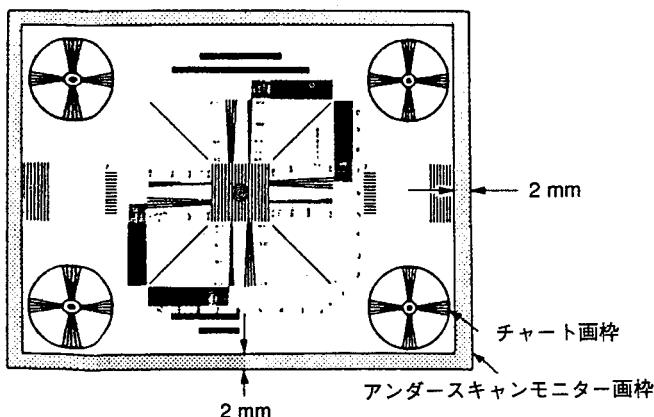
1. 解像度チャート棒とモニター画面のアンダースキャン画枠が一致するようにレンズズームを調整します。
カメラのVIDEO OUT端子の白レベルが100±2 IREになるようにレンズ絞りを調整します。

モニター画面



2. ●RV2(H SIZE)/MAIN基板で、解像度チャートの水平サイズをCRTの縁より約2 mmアンダースキャンします。
3. ●RV7(V SIZE)/MAIN基板で、解像度チャートの垂直サイズをCRTの縁より約2 mmアンダースキャンします。

ビューファインダ画面



4. ●RV8(V LIN)/MAIN基板で、解像度チャートの四隅の円を真円にします。
5. 各規格を満足するまで、手順2~4を数回繰り返します。

3-2-7. ピーキングオフセット調整

被写体：ホワイトウインドウチャート

準備：

1. ホワイトウインドウチャートを撮像し、カメラのVIDEO OUT端子の白レベルが50±2 IREになるようにレンズ絞りを調整します。

2. CONTRASTつまみ(ビューファインダー)

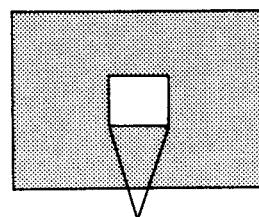
→メカニカルセンター

3. PEAKINGつまみ(ビューファインダー)

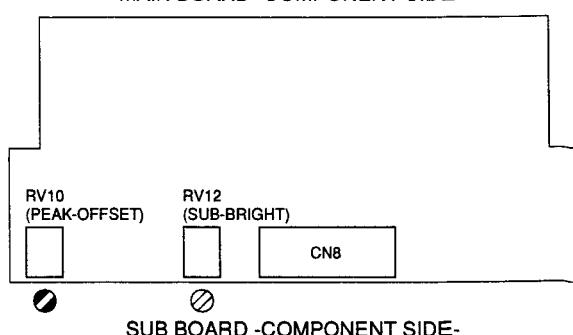
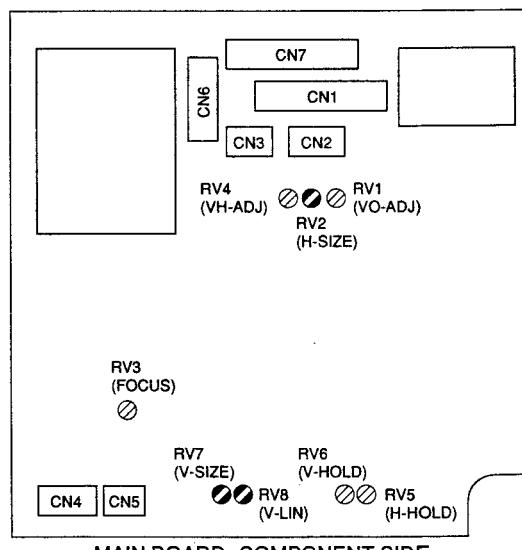
→時計方向一杯○にした後、反時計方向へ約10度廻します。

測定点：ビューファインダー画面

調整： ピークレベルのエッジが左右で等しくなるように
●RV10(Peak Offset)/SUB基板を調整します。



ピークレベルのエッジが等しいこと



SECTION 1

OPERATING INSTRUCTION

This section is extracted from
operation manual.

The DXF-601/601CE is an electronic (monochrome) viewfinder which can be attached to a Sony CCD Color Video Camera DXC-637/637P. For details of operation, refer to the Operating Instructions for the camera.

Principal Specifications

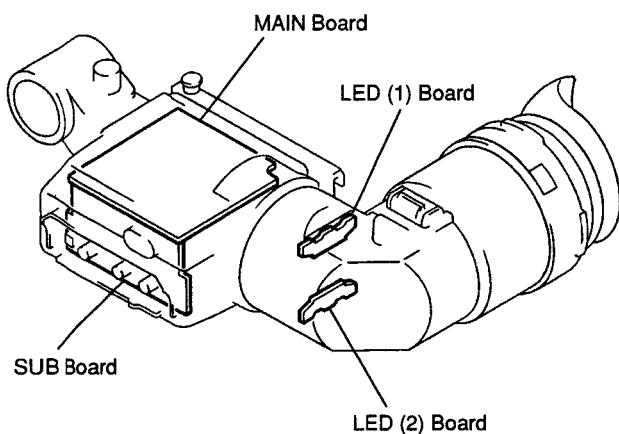
Picture tube	1.5-inch monochrome
Indicators	REC/TALLY, BATT, SHUTTER, GAIN UP
Resolution	600 TV lines
Signal system	DXF-601: EIA standards DXF-601CE: CCIR standards
Power supply	12 V DC
Power consumption	2.1 W
Mass	660 g approx. (1 lb 7 oz)
Maximum external dimensions	236 (W) × 85 (H) × 219 (D) mm (9 ³ / ₈ × 3 ³ / ₈ × 8 ⁵ / ₈ inches)

Design and specifications are subject to change without notice.

SECTION2

SERVICE INFORMATION

2-1. BOARD LAYOUT



2-2. REPLACEMENT OF MAIN PARTS

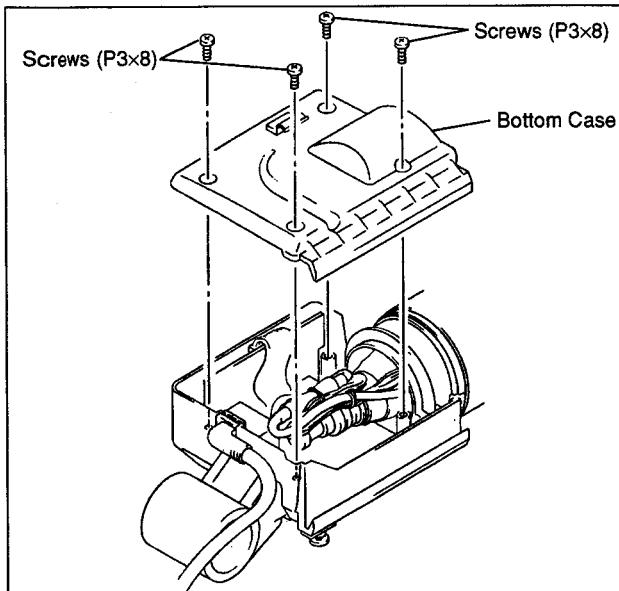
2-2-1. Notes on Replacement of MAIN Board

To replace the MAIN board, perform adjustment referring to Section 3-1-3.“Notes on replacing the MAIN board”.

2-2-2. Replacement of CRT/DY Ass'y

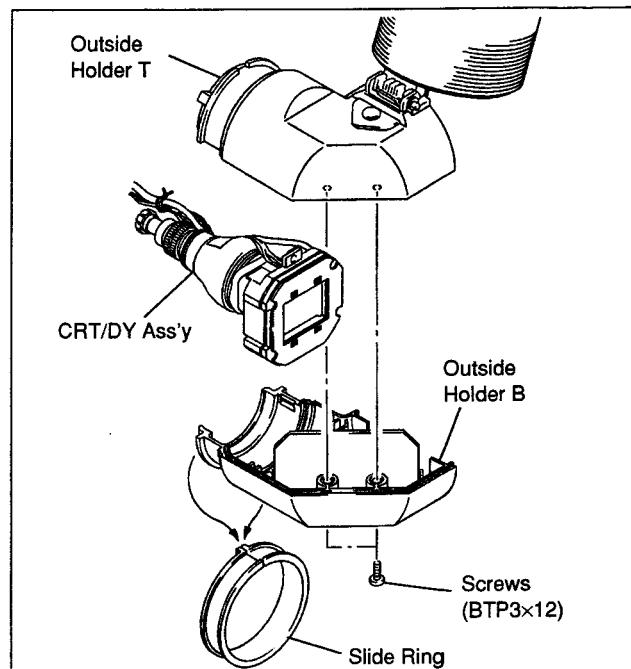
Note: If a deflection yoke is replaced, you should replace assembly of CRT and deflection yoke (CRT/DY ASS'Y).

1. Remove four screws as shown in Figure and remove the bottom case.

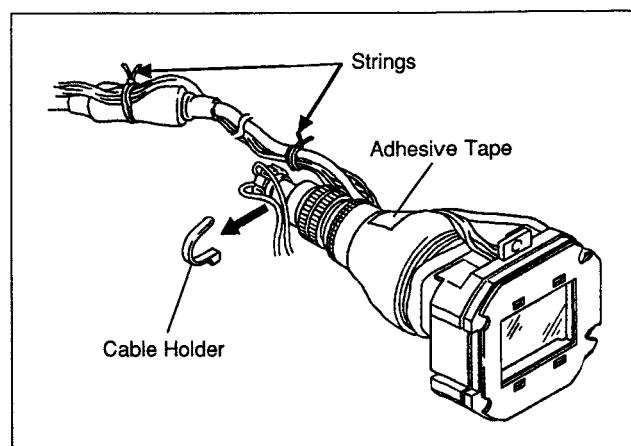


DXF-601 (UC)
DXF-601CE (EK)

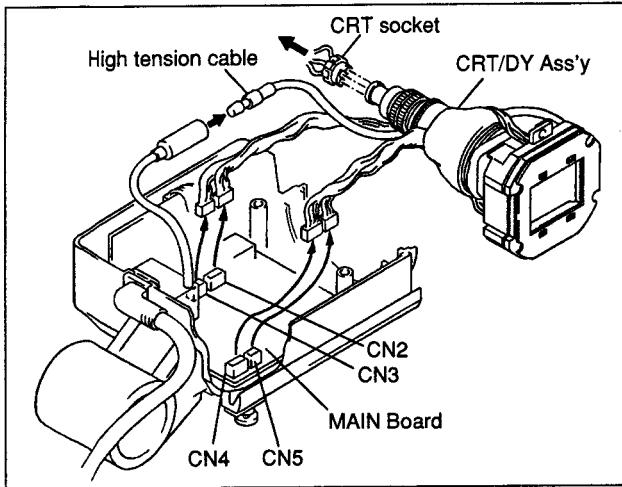
2. Remove the slide ring as shown in Figure.
Remove two screws and remove the CRT/DY ASS'Y from outside holders B and T.



3. Untie two strings and remove an adhesive tape and Cable Holder.



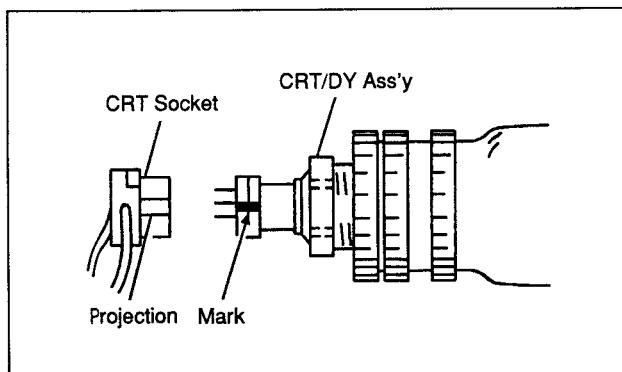
- Disconnect four connectors CN2, 3, 4, 5 and 7 on the MAIN board and high-tension cable. Disconnect the CRT socket from the CRT/DY ASS'Y.



Note: In disconnecting, carefully pull the CRT socket backward, as the pins of CRT/DY ASS'Y is liable to bend.

- When installing a new CRT/DY ASS'Y, reverse the above procedures.

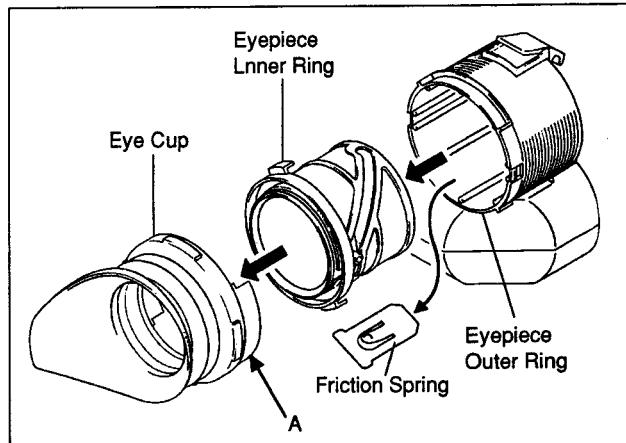
Note: In reconnecting the CRT socket, be sure to match a projection of the CRT socket with a mark of the CRT/DY ASS'Y.



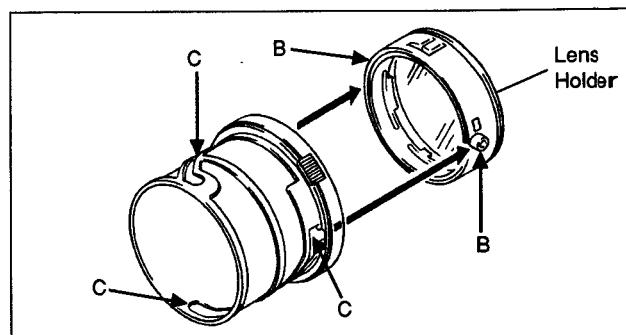
2-3. REPLACEMENT OF VF LOUPE

- Insert a minus screw driver to the clearance between portion A and eyepiece outer ring as shown in Figure. Remove eye cup by lifting its portion A and remove eyepiece inner ring.

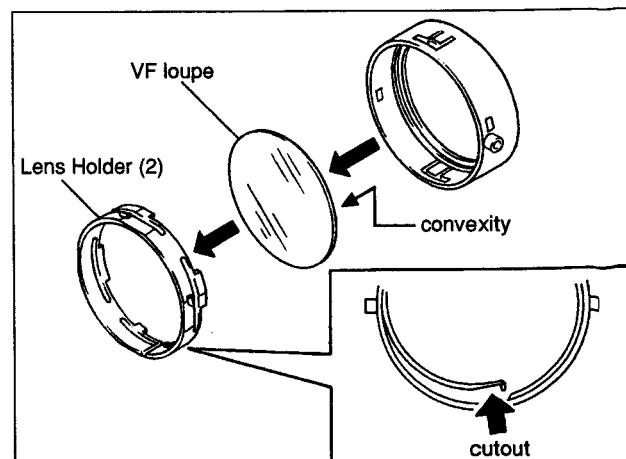
Note: When removing eyepiece inner ring, the friction spring is liable to remove.



- Hold the portion B as shown in Figure. Remove the lens holder along the groove C.



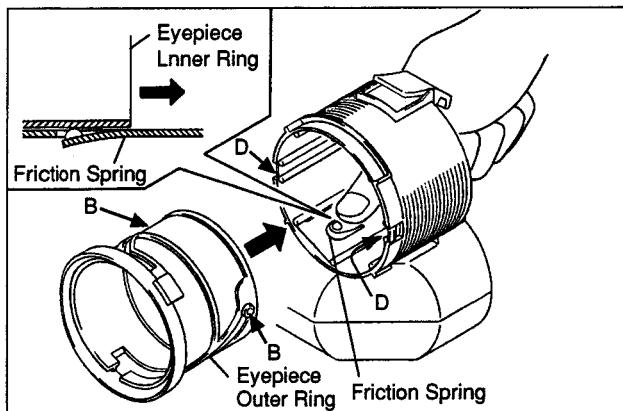
- Remove one side of cutout portion as shown in Figure. Pull out the lens holder (2) and remove the VF loupe.



- When installing the VF loupe, reverse the above procedures.

Note: ① When installing the VF loupe, ensure the direction of VF loupe. (Refer to Item 2-3-3.)

② When installing eyepiece inner ring, ensure the inserting position of friction spring and hold it by finger. Match boss of portion D and insert the inner ring to the outer ring.



- Optional VF loupe

There are two kind of VF loupes as optional accessory.
Use a VF loupe to match your visibility range.

VF loupe for aged eyes;

-2D to +1D (Sony part No. 3-725-276-01)

-0.5D to +3D (Sony part No. 3-176-501-01)

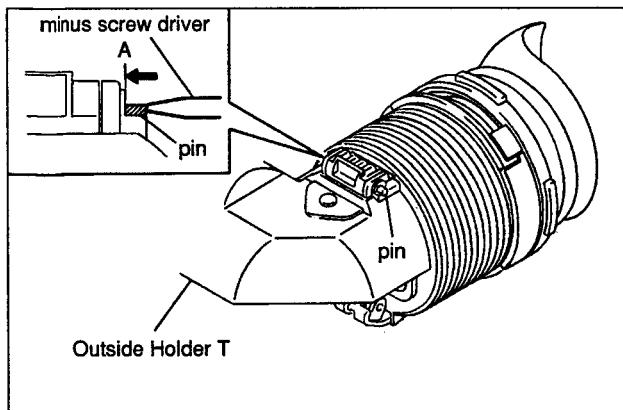
(For reference) Standard ; -3D to 0D

2-4. REPLACEMENT OF OUTSIDE HOLDER T AND EYEPiece OUTER RING

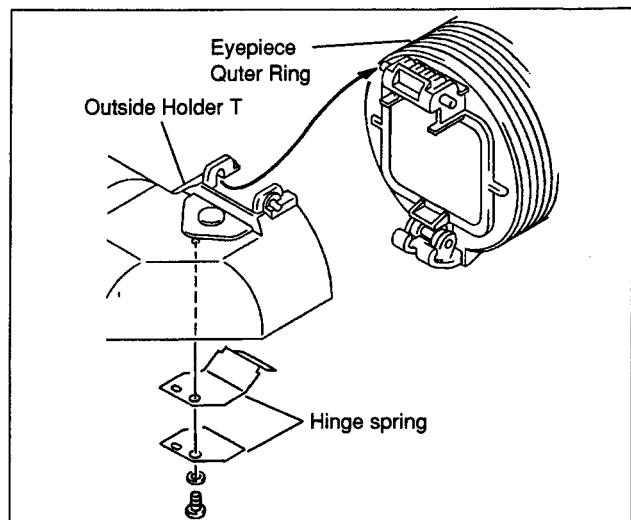
- Remove the Outside holder T referring to Section 2-2-2.

"Replacement of CRT/DY Ass'y".

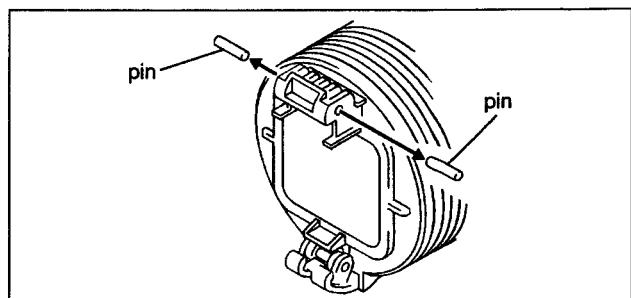
- Push two pins to portion A by minus screw driver as shown in Figure.



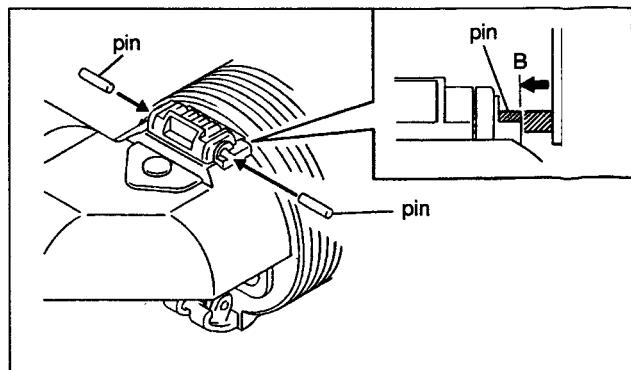
- Remove a screw, washer and two hinge springs. Then, remove the outside holder T and eyepiece outer ring as shown in Figure arrow.



- Pull out two pins.



- Replace outside holder T or eyepiece outer ring to new one. And insert two pins to portion B by minus screw driver as shown in Figure.



SECTION 3

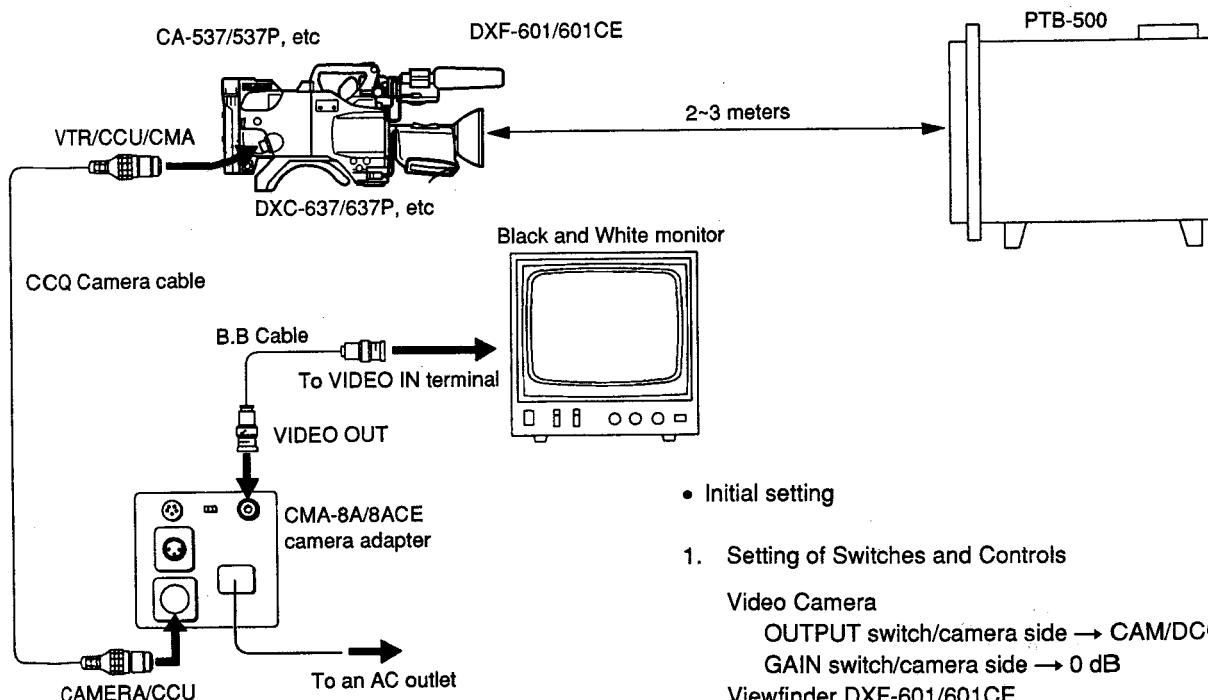
ALIGNMENT

3-1. PREPARATION

3-1-1. Equipment Required

1. Pattern box PTB-500
Sony part number J-6029-140-B
2. Resolution chart
Sony part number J-6026-100-A
3. White Window chart
4. Video camera DXC-637/637P, etc.
5. Camera Adaptor CA-537/537P, etc.
6. AC Adaptor CMA-8/8CE/8A/8ACE
7. Camera Cable CCQ-2BRS
8. B/W monitor PVM-91/91CE or equivalent
9. Oscilloscope
10. Waveform monitor
11. Digital voltmeter

3-1-2. Connection and Initial setting



When replacing the MAIN board, perform as follows.

1. Lens iris of Video camera → Close "C"
2. Confirm that the DC level at pin 1 of IC5 on the MAIN board is 6.0 ± 1.7 Vdc.
3. If not met, re-mount R47 resistor on the MAIN board so that the specification is met by selecting one of following resistors.

R47: 2.0 kΩ
2.7 kΩ
3.3 kΩ (selected at the factory)
4.7 kΩ

• Initial setting

1. Setting of Switches and Controls

Video Camera

OUTPUT switch/camera side → CAM/DCC OFF
GAIN switch/camera side → 0 dB

Viewfinder DXF-601/601CE

CONTRAST control → Fully clockwise
BRIGHT control → Mechanical center

Lens

IRIS AUTO/MANU → AUTO

2. Preparation for picture

- (1) Adjust the lens zoom so that the Resolution chart frame coincides the underscanned picture frame on the monitor.
- (2) Adjust the iris control for the best resolution of the monitor.

3-2. VIEWFINDER SYSTEM ADJUSTMENT

3-2-1. +9.5V Adjustment

Note: Perform the adjustment only when measured voltage is more than $\pm 1\%$ with respect to the specified voltage. When this adjustment is carried out, all of following adjustments must be confirmed.

Equipment: Digital voltmeter
Test point: TP1/MAIN board
Adjusting point: \bullet RV1 (VO ADJ)/MAIN board
Specification: $+9.5 \pm 0.05$ Vdc

3-2-2. Vertical Hold Adjustment

Note: When the video camera attached viewfinder DXF-601/601CE is applied the following cases, perform adjustment with removing R66 resistor on the MAIN board. After adjustment, re-mount R66 resistor.

- In case the video camera is connected the peripheral equipment (VTR, CCU, etc.) except the camera adaptor CA-537/537P.
- In case the video camera is one-piece camera (ex. UVW-100/100P)

Equipment: Oscilloscope

Preparation:

\bullet RV7 (V SIZE)/MAIN board → Mechanical center
(If \bullet RV7 (V SIZE)/MAIN board is marked, not turn \bullet RV7 (V SIZE)/MAIN board.)

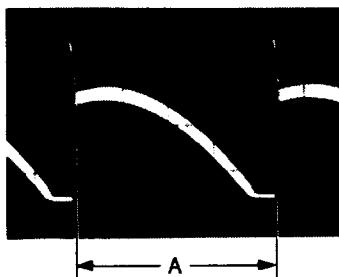
Test point: CN5-pin 1/MAIN board

Adjusting point: \bullet RV6 (V HOLD)/MAIN board

Specification: A = 25.6 ± 0.3 ms

Adjustment Procedure

Adjust \bullet RV6 (V HOLD)/MAIN board so that the specification is met while the viewfinder is free-run state (Viewfinder is not input any video signal.) by pressing the RET button of Lens.

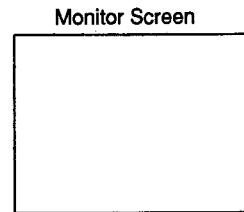


3-2-3. Horizontal Hold Adjustment

Object: White Window chart
Equipment: Waveform monitor, Oscilloscope
Trigger: CH2/Oscilloscope

Preparation:

1. Shoot the White Window chart and adjust the lens zoom so that the picture on the monitor screen becomes all white.

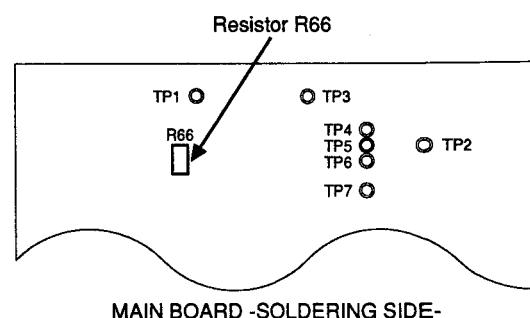
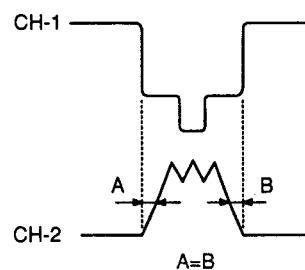


2. Adjust the iris control for the white level at VIDEO OUT connector on the camera is 100 ± 2 IRE (PAL: 700 ± 14 mV).

Test point: CH1 TP5 (H1)/MAIN board
CH2 TP9 (+H DEF)/MAIN board

Adjusting point: \bullet RV5 (H HOLD)/MAIN board

Adjustment:



3-2-4. Bright Calibration Adjustment

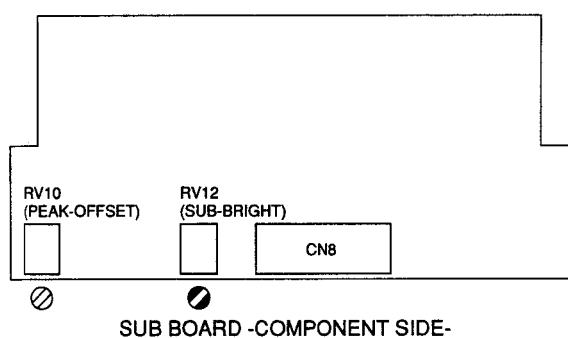
Object: Resolution chart

Preparation:

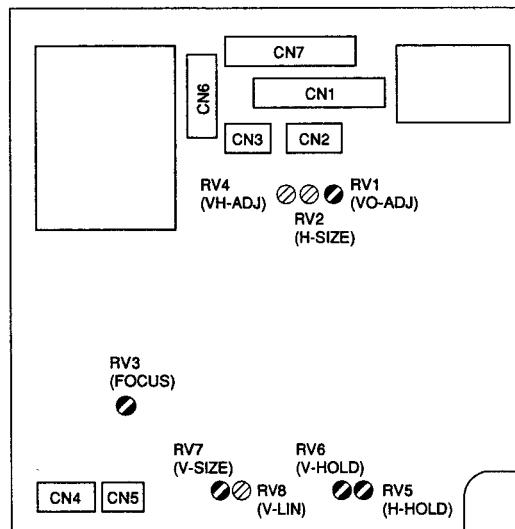
1. BRIGHT control (Viewfinder)
→ Fully clockwise ○
2. CONTRAST control (Viewfinder)
→ Fully clockwise ○

Adjustment:

Adjust the picture by turning **RV12 (SUB BRIGHT)**/SUB board counterclockwise from fully clockwise position so that the black and white gradation scale is black up to the third step and the forth step is recognizable.



SUB BOARD - COMPONENT SIDE-



MAIN BOARD - COMPONENT SIDE-

3-2-5. Focus Adjustment

Note: "3-2-6. Picture Frame Adjustment" and this adjustment affect each other.

Repeat these adjustments until both specifications are satisfied.

Object: Resolution chart

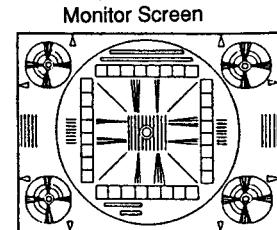
Equipment: Waveform monitor

Preparation:

1. IRIS AUTO/MANU (Lens) → MANU
2. BRIGHT control (Viewfinder)
→ Mechanical center
3. CONTRAST control (Viewfinder)
→ Fully clockwise ○
4. PEAKING control (Viewfinder)
→ Fully counterclockwise ○

Adjustment:

1. Adjust the lens zoom so that the resolution chart frame coincides the underscanned picture frame on the monitor screen.



2. Adjust the iris control for the white level at VIDEO OUT connector on the camera is 100 ± 2 IRE (PAL: 700 ± 14 mV).
3. Adjust **RV3 (FOCUS)**/MAIN board so that the picture on the viewfinder screen is best focused.

3-2-6. Picture Frame Adjustment

Note: "3-2-5. Focus Adjustment" and this adjustment affect each other.
Repeat these adjustments until both specifications are satisfied.

Object: Resolution chart

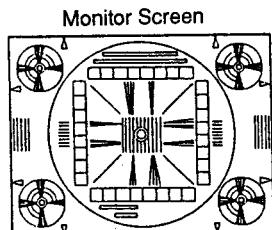
Equipment: Waveform monitor

Preparation:

1. BRIGHT control (Viewfinder)
→ Mechanical center
2. CONTRAST control (Viewfinder)
→ Mechanical center
3. PEAKING control (Viewfinder)
→ Fully counterclockwise ○
4. Remove the eye cap from the viewfinder.

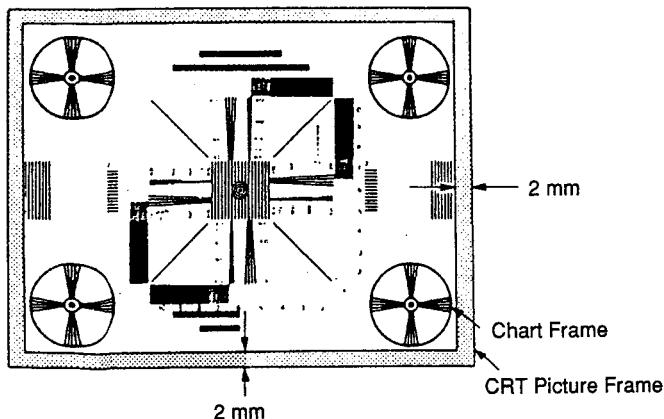
Adjustment:

1. Adjust the lens zoom so that the resolution chart frame touches the underscanned picture frame on the monitor screen.
Adjust the iris control for the white level at VIDEO OUT connector on the camera is 100 ± 2 IRE (PAL: 700 ± 14 mV).



2. Adjust ○RV2 (H SIZE)/MAIN board so that the H size of resolution chart is underscanned by approximately 2 mm from the CRT picture frame.
3. Adjust ○RV7 (V SIZE)/MAIN board so that the V size of resolution chart is underscanned by approximately 2 mm from the CRT picture frame.

Viewfinder Screen



4. Adjust ○RV8 (V LIN)/MAIN board so that the distortion of each circle at the four corners of resolution chart is minimized.
5. Repeat procedure 2 to 4 until the specification are satisfied.

3-2-7. Peaking Offset Adjustment

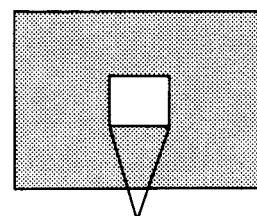
Object: White Window chart

Preparation:

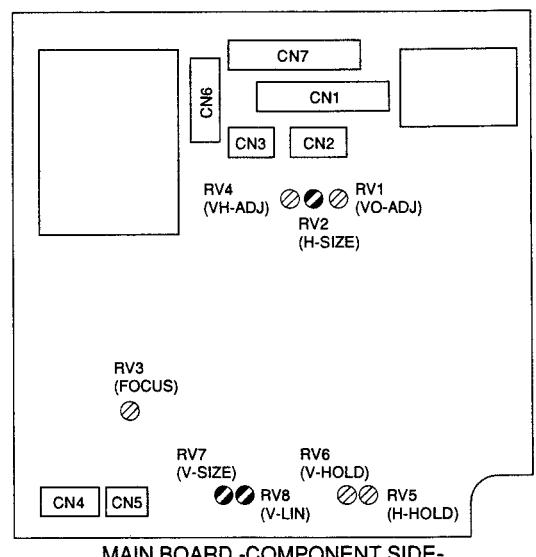
1. Shoot the White Window chart and adjust the lens iris so that the white level at VIDEO OUT connector on the camera is 50 ± 2 IRE (PAL: 350 ± 10 mV).
2. CONTRAST control (Viewfinder)
→ Mechanical center
3. PEAKING control (Viewfinder)
→ From fully clockwise to counterclockwise by 10 degrees.

Test point: Viewfinder Screen

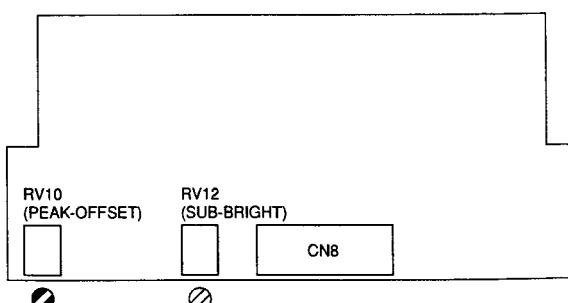
Adjustment: Adjust ○RV10 (PEAK OFFSET)/SUB board so that the right and left edges of peak level are the same.



Be sure that the edges of peak level are the same.



MAIN BOARD -COMPONENT SIDE-

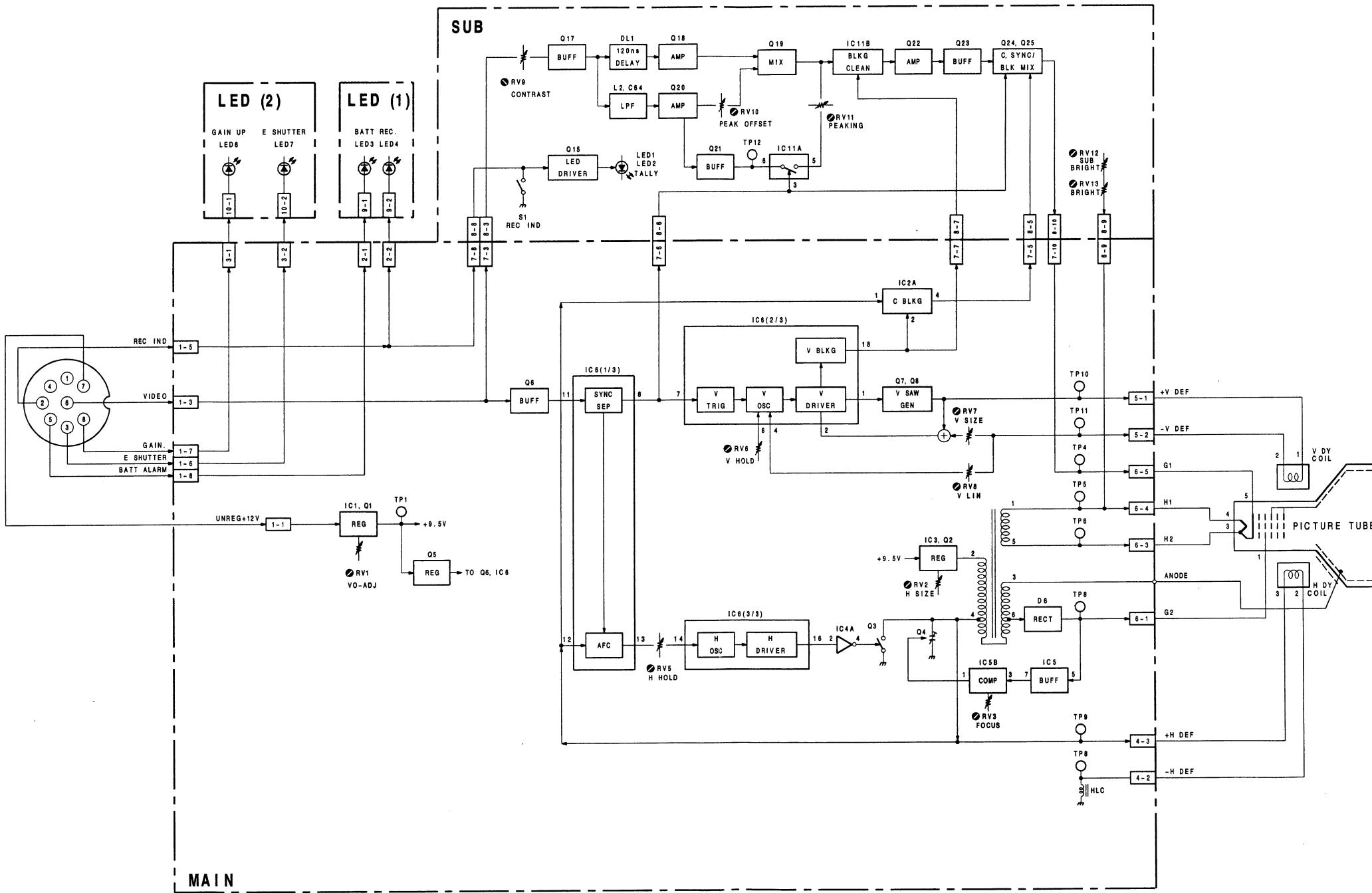


SUB BOARD -COMPONENT SIDE-

DXF-601 (UC)
DXF-601CE (EK)

BLOCK DIAGRAM BLOCK DIAGRAM

SECTION A
BLOCK DIAGRAM



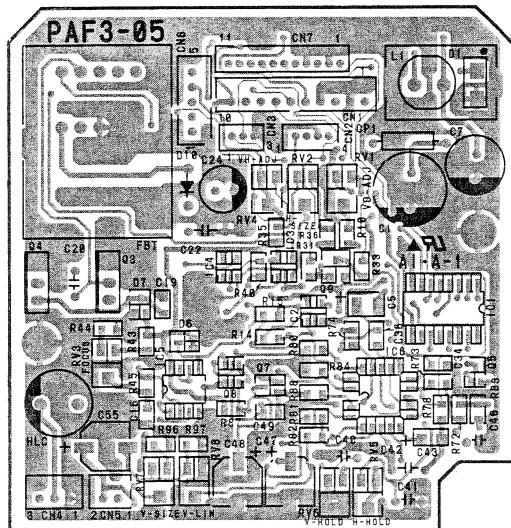
VIEWFINDER
DXF-601(J)
DXF-601(UC)
DXF-601CE(EK)

[B-YDXC601-OABLOCK/M]

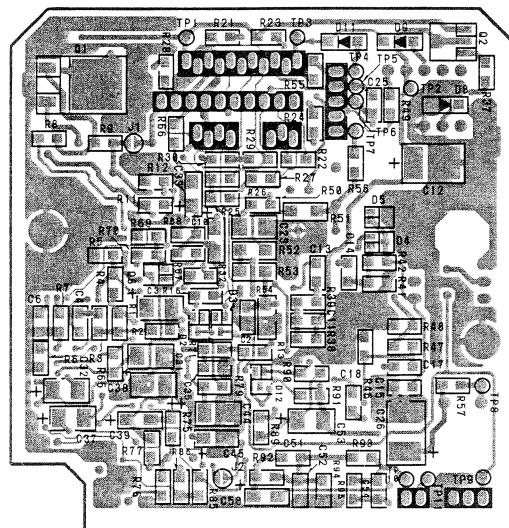
SECTION B

SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS

MAIN BOARD

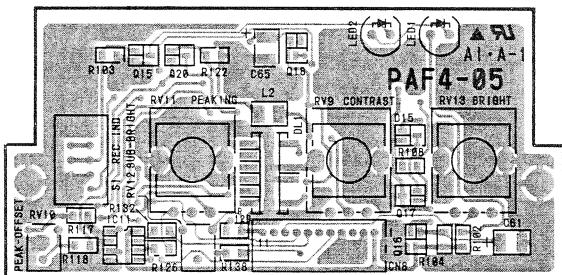


COMPONENT SIDE

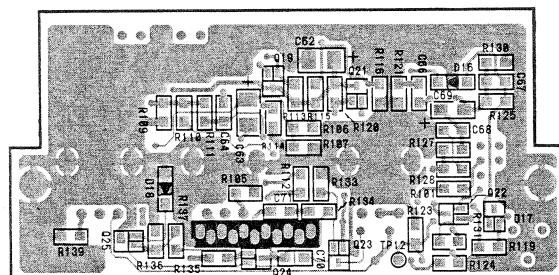


SOLDERING SIDE

SUB BOARD



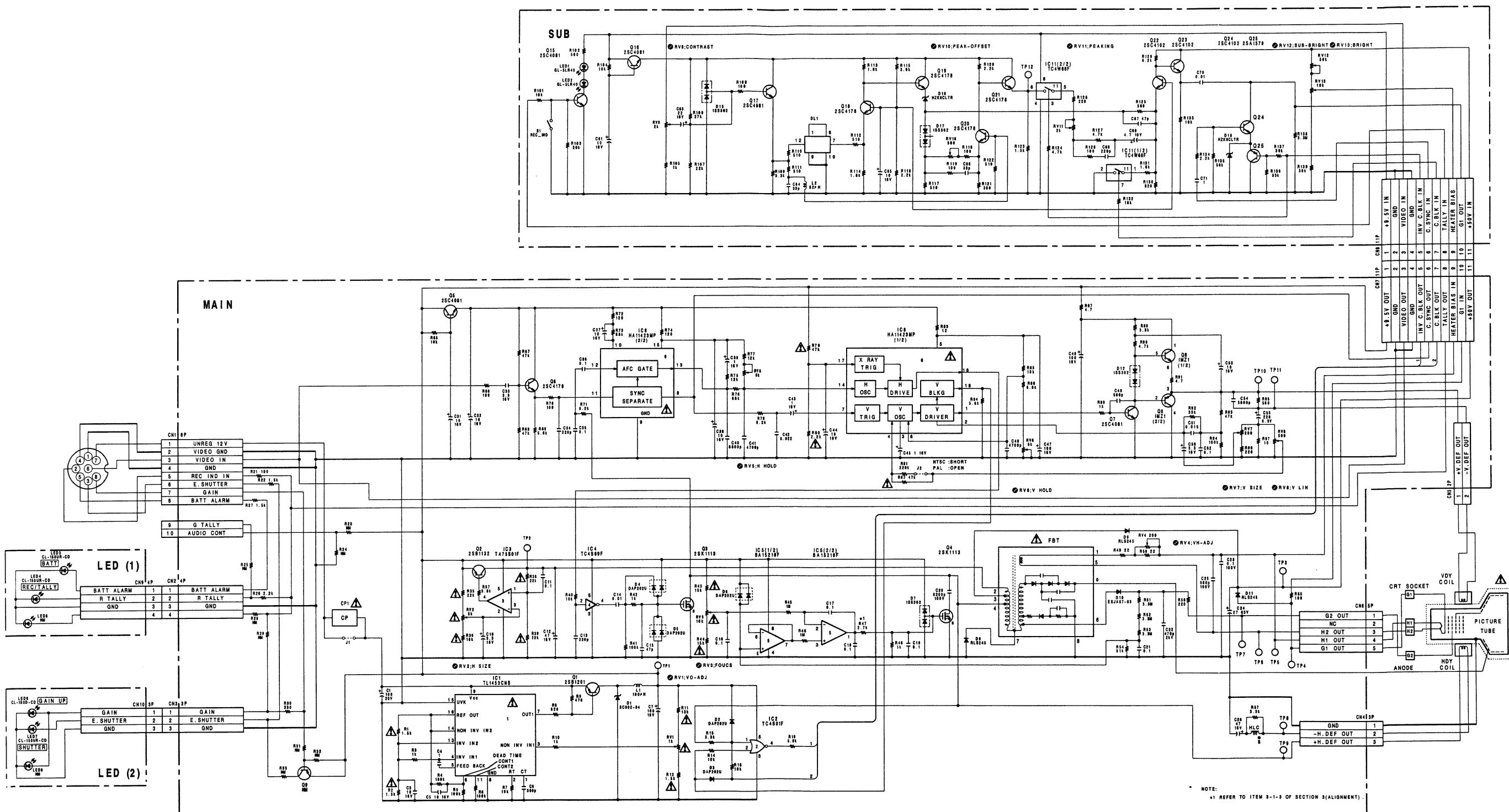
COMPONENT SIDE



SOLDERING SIDE

MAIN. SUB FRAME FRAME MAIN. SUB

FRAME



FRAME WIRING

MAIN BOARD

SUB BOARD

DXF-601(J)
DXF-601(UC)
DXF-601CE(EK)

**DXF-601 (J)
DXF-601 (UC)
DXF-601CE(EK)**

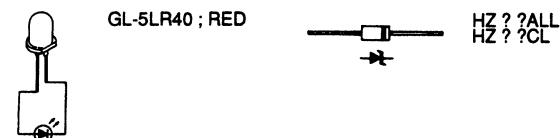
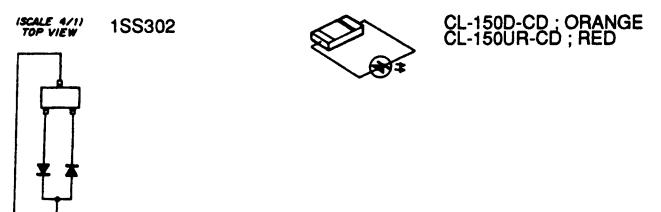
SEMICONDUCTOR

SEMICONDUCTOR

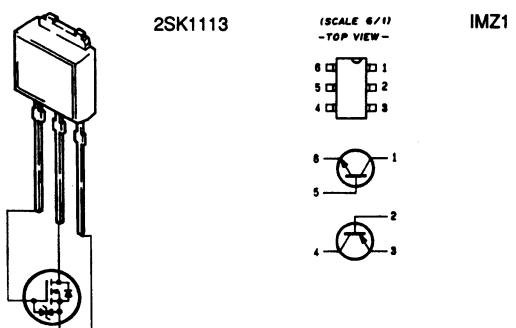
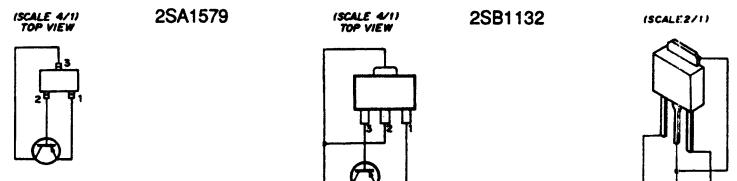
SECTION C SEMICONDUCTOR

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

< DIODE >

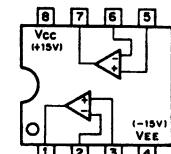


< TRANSISTOR >

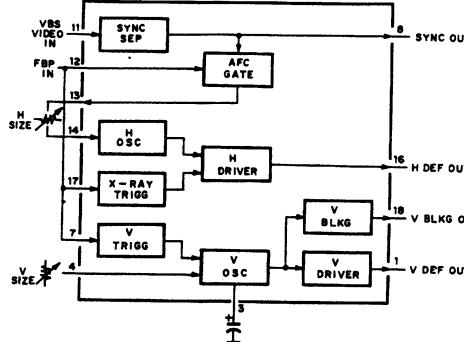
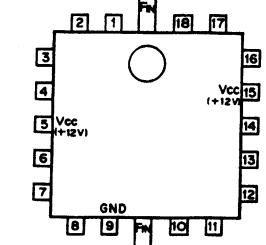


< IC >

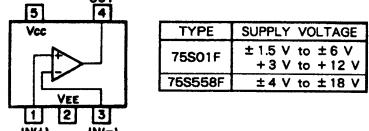
BA15218F (ROHN) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIER
- TOP VIEW -



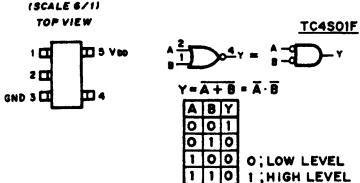
HA11423MP (HITACHI) FLAT PACKAGE
TV H/V SYNC SIGNAL PROCESSOR
- TOP VIEW -



TA75S01F (TOSHIBA)
SINGLE OPERATIONAL AMPLIFIER
- TOP VIEW -

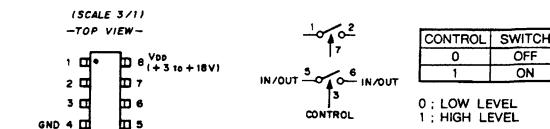


TC4S01F (TOSHIBA) CHIP PACKAGE
C-MOS 2-INPUT NOR GATE
- TOP VIEW -

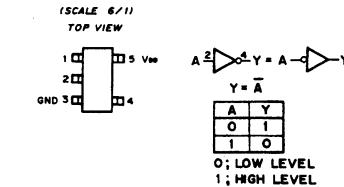


TYPE	V _{DD}
4S01F	+3 to +18V
7S02F	+2 to +6V
7SH02FU	+2 to +5.5V

TC4W66F (TOSHIBA) CHIP PACKAGE
C-MOS DUAL BILATERAL SWITCH

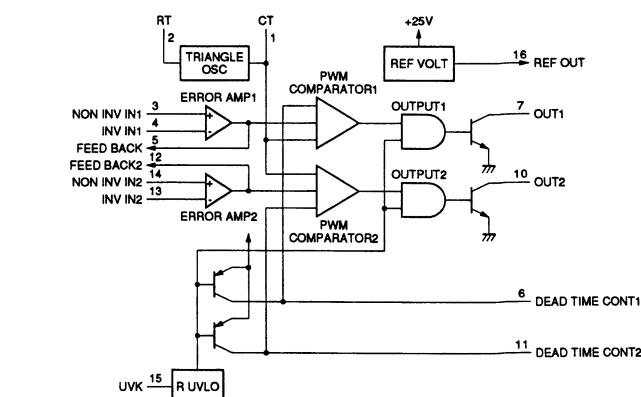
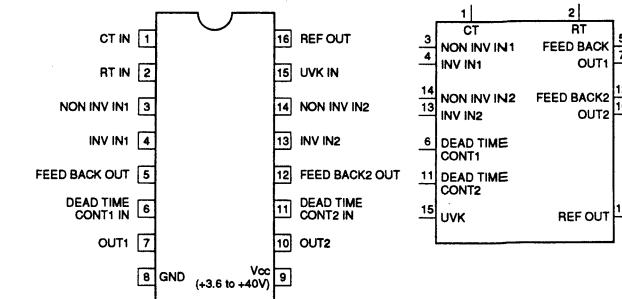


TS4S69F (TOSHIBA) CHIP PACKAGE
C-MOS INVERTER



TYPE	V _{DD}
7S04F	+2 to +6V
TSU04F	+2 to +6V
4S69F	+3 to +18V
4S169F	+3 to +18V
7SH04FU	+2 to +5.5V

TL1453CNS (TI) FLAT PACKAGE
DUAL SWITCHING REGULATOR CONTROLLER
- TOP VIEW -



SECTION D

SPARE PARTS

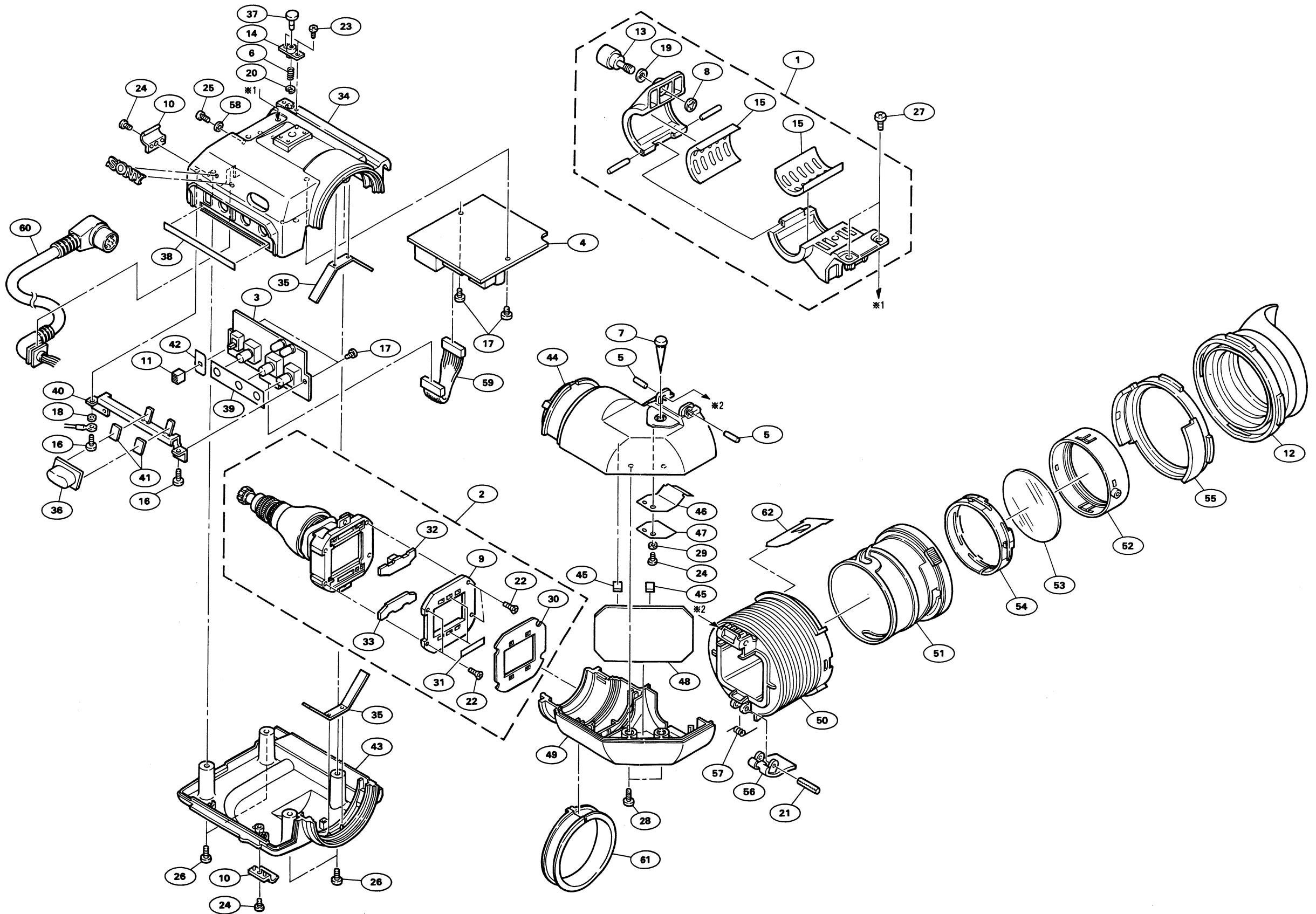
PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with  on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "**accommodating the improved parts and/or engineering changes**" or "**standardization of genuine parts.**" This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
5. All capacitors are in micro farads unless otherwise specified.
All inductors are in micro henries unless otherwise specified.
All resistors are in ohms.

EXPLODED VIEW



No.	Part No.	SP Description	No.	Part No.	SP Description
1	A-8278-161-A	o HOLDER ASSY, MICROPHONE	51	9-933-342-01	o INNER RING, EYEPIECE
2	△ 1-547-798-11	s CRT/DY+CONNECTOR ASSY	52	9-933-343-01	o HOLDER, LENS
3	1-589-701-11	o MOUNTED CIRCUIT BOARD, "SUB"	53	9-933-344-01	s LOUPE, VF(-3D to 0D)
4	△ 1-589-735-11	o MOUNTED CIRCUIT BOARD, "MAIN" (for DXC-601)	54	3-725-276-01	s LOUPE(aged eyes), VF(-2D to +1D)
	△ 1-589-735-21	o MOUNTED CIRCUIT BOARD, "MAIN" (for DXC-601CE)	55	3-176-501-01	s LOUPE(aged eyes), VF(-0.5D to +3D)
5	2-249-361-00	o PIN, PARALLEL	56	9-933-345-01	o HOLDER(2), LENS
6	2-277-466-01	s SPRING, COMPRESSION	57	9-933-346-01	s HOLDER, EYECUP
7	2-362-365-00	s FOOT, RUBBER	58	9-933-347-01	s STOPPER
8	3-165-904-01	s WASHER, SCREW STOPPER	59	9-933-348-01	s SPRING, HELICAL TORSION
9	3-176-022-03	o SPACER(B), MASK	60	9-933-349-01	s WASHER
10	3-678-684-01	o HOLDER, CABLE	61	9-933-350-01	s HARNESS (11 CORE)
11	3-680-605-00	o CAP, SLIDE	62	9-994-797-01	o CABLE, VF
12	3-686-264-01	s EYECUP(3)			
13	3-686-276-01	o SCREW, M5			
14	3-710-008-02	s HOUSING, STOPPER			
15	2-113-294-01	s CUSHION, MICROPHONE			
16	7-621-770-99	s SCREW, +B 2.6X8			
17	7-621-773-86	s SCREW, +B 2.6X4			
18	7-623-307-07	s LW 2.6, TYPE A			
19	7-623-912-31	s FIBER WASHER 5, MIDDLE			
20	7-624-102-04	s STOP RING 1.5, TYPE -E			
21	7-626-314-31	s SPRING PIN 2X16			
22	7-627-452-38	s SCREW, PRECISION +K 2X5 TYPE1			
23	7-627-554-18	s SCREW, PRECISION +P 2X3.5 TYPE1			
24	7-627-556-38	s SCREW, PRECISION +P 2.6X4			
25	7-682-546-09	s SCREW +B 3X5			
26	7-682-548-09	s SCREW +B 3X8			
27	7-682-560-09	s SCREW +B 4X6			
28	7-685-548-19	s SCREW +BTP 3X12 TYPE2 N-S			
29	7-688-001-12	s WASHER			
30	9-933-304-01	s ORNAMENTAL PLATE, MASK			
31	9-933-305-01	o PLATE, SPREAD			
32	9-933-306-01	o MOUNTED CIRCUIT BOARD, LED(1)			
33	9-933-307-01	o MOUNTED CIRCUIT BOARD, LED(2)			
34	9-933-325-01	o CASE, TOP			
35	9-933-326-01	o SPRING, PLATE			
36	9-933-327-01	o COVER TALLY			
37	9-933-328-01	s KNOB, STOPPER			
38	9-933-329-01	o LABEL, SWITCH			
39	9-933-330-01	o PLATE, PARTING			
40	9-933-331-01	o STAY, BOARD			
41	9-933-332-01	s MOLT			
42	9-933-333-01	o PLATE, PARTING			
43	9-933-334-01	o CASE, BOTTOM			
44	9-933-335-01	s HOLDER T, OUTSIDE			
45	9-933-336-01	s MOLT(2)			
46	9-933-337-01	o SPRING(1), HINGE			
47	9-933-338-01	o SPRING(2), HINGE			
48	9-933-339-01	o MIRROR			
49	9-933-340-01	s HOLDER B, OUTSIDE			
50	9-933-341-01	s OUTER RING, EYEPIECE			

ELECTRICAL PARTS LIST

LED(1) BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 9-933-306-01 s PRINTED CIRCUIT BOARD, LED(1)
1pc 9-933-312-01 s HARNESS (4 CORE)
CN9 9-933-310-01 s PIN, CONNECTOR 4P
LED3 8-719-026-39 s LED CL-150UR-CD RED
LED4 8-719-026-39 s LED CL-150UR-CD RED

LED(2) BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 9-933-307-01 s PRINTED CIRCUIT BOARD, LED(2)
1pc 9-933-313-01 s HARNESS (3 CORE)
CN10 9-933-311-01 s PIN, CONNECTOR 3P
LED6 8-719-026-16 s LED CL-150D-CD ORG
LED7 8-719-026-39 s LED CL-150UR-CD RED

MAIN BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc Δ 1-589-735-11 s MOUNTED CIRCUIT BOARD, MAIN
(FOR DXF-601)
1pc Δ 1-589-735-21 s MOUNTED CIRCUIT BOARD, MAIN
(FOR DXF-601CE)
1pc 9-936-098-01 s CASE, SHIELD
C1 9-933-314-01 s ELECT 100uF 20% 20V
C3 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V
C4 1-164-346-11 s CERAMIC, CHIP 1uF 16V
C5 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V
C6 1-163-131-00 s CERAMIC, CHIP 390PF 5% 50V
C7 9-933-315-01 s ELECT 100uF 20% 16V
C10 9-904-850-01 s TANTALUM, CHIP 20% 3.3uF 16V
C11 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C12 9-904-852-01 s TANTALUM, CHIP 20% 47uF 16V
C13 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V
C14 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
C15 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C16 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C17 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C18 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C19 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C20 1-136-293-11 s FILM 0.0082uF 5% 100V
C21 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C22 9-904-854-01 s CERAMIC 470PF 10% 2KV
C23 9-904-853-01 s CERAMIC, CHIP 0.1uF 20% 100V
C24 9-904-858-01 s ELECT 27uF 20% 6.3V
C25 1-163-135-00 s CERAMIC, CHIP 560PF 5% 50V
C26 9-904-852-01 s TANTALUM, CHIP 20% 47uF 16V
C31 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V

(MAIN BOARD)

Ref. No.
or Q'ty Part No. SP Description

C32 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V
C33 9-904-850-01 s TANTALUM, CHIP 20% 3.3uF 16V
C34 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V
C35 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C36 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C37 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V
C38 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V
C39 1-135-091-00 s TANTALUM, CHIP 1uF 20% 16V
C40 1-130-481-00 s FILM 0.0068uF 5% 50V
C41 1-136-287-11 s FILM 0.0047uF 5% 100V
C42 1-130-487-00 s FILM 0.022uF 5% 50V
C43 1-135-091-00 s TANTALUM, CHIP 1uF 20% 16V
C44 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V
C45 1-135-091-00 s TANTALUM, CHIP 1uF 20% 16V
C46 1-130-479-00 s FILM 0.0047uF 5% 50V
C47 9-904-855-01 s ELECT 100uF 20% 16V
C48 9-904-855-01 s ELECT 100uF 20% 16V
C49 1-163-135-00 s CERAMIC, CHIP 560PF 5% 50V
C50 9-904-850-01 s TANTALUM, CHIP 20% 3.3uF 16V
C51 1-163-023-00 s CERAMIC, CHIP 0.015uF 10% 50V
C52 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
C53 9-904-851-01 s TANTALUM, CHIP 20% 10uF 16V
C54 1-163-018-00 s CERAMIC, CHIP 5600PF 10% 50V
C55 9-904-856-01 s ELECT 220uF 20% 6.3V
CN1 1-564-710-11 s PIN, CONNECTOR 8P
CN2 9-933-322-01 s PIN, CONNECTOR 4P
CN3 9-933-323-01 s PIN, CONNECTOR 3P
CN4 9-994-792-01 s PIN, CONNECTOR 3P
CN5 9-994-793-01 s PIN, CONNECTOR 2P
CN6 1-564-707-11 s CONNECTOR, 5P, MALE
CN7 9-933-324-01 s PIN, CONNECTOR 11P
CP1 Δ 9-904-864-01 s RES, FUSIBLE 2.2
D1 8-719-989-76 s DIODE SC802-04
D2 8-719-941-09 s DIODE DAP202U
D3 8-719-941-09 s DIODE DAP202U
D4 8-719-941-09 s DIODE DAP202U
D5 8-719-941-09 s DIODE DAP202U
D6 8-719-941-09 s DIODE DAP202U
D7 8-719-820-41 s DIODE 1SS302
D8 8-719-976-56 s DIODE RLS245
D9 8-719-976-56 s DIODE RLS245
D10 8-719-919-16 s DIODE ESJA57-03
D11 8-719-976-56 s DIODE RLS245
D12 8-719-820-41 s DIODE 1SS302
FBT Δ 1-439-419-12 s TRANSFORMER, FLYBACK
HLC 1-459-899-11 s COIL, HORIZONTAL LINEARITY
IC1 Δ 8-759-972-76 s IC TL1453CNS
IC2 8-759-209-54 s IC TC4S01F
IC3 8-759-075-66 s IC TA75501F
IC4 8-759-209-57 s IC TC4S69F
IC5 8-759-981-44 s IC BA15218F-K
IC6 Δ 8-759-300-28 s IC HA11423MP
L1 9-933-321-01 s INDUCTOR, CHIP 100uH

(MAIN BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q1	8-729-024-66 s	TRANSISTOR 2SB1201-S
Q2	8-729-903-46 s	TRANSISTOR 2SB1132-P
Q3	8-729-013-08 s	TRANSISTOR 2SK1113
Q4	8-729-013-08 s	TRANSISTOR 2SK1113
Q5	8-729-905-33 s	TRANSISTOR 2SC4081
Q6	8-729-117-72 s	TRANSISTOR 2SC4178
Q7	8-729-905-33 s	TRANSISTOR 2SC4081
Q8	8-729-907-46 s	TRANSISTOR IMZ1
R1	△ 1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R2	△ 1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R3	1-216-049-11 s	METAL, CHIP 1K 5% 1/10W
R4	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R5	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R6	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R7	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R8	1-216-044-00 s	METAL, CHIP 620 5% 1/10W
R9	1-216-041-11 s	METAL, CHIP 470 5% 1/10W
R10	1-216-049-11 s	METAL, CHIP 1K 5% 1/10W
R11	△ 1-216-076-00 s	METAL, CHIP 13K 5% 1/10W
R12	△ 1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R13	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R14	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R15	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R16	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R21	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R22	1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R26	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R27	1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R30	1-216-037-00 s	METAL, CHIP 330 5% 1/10W
R35	△ 1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R36	△ 1-216-079-00 s	METAL, CHIP 18K 5% 1/10W
R37	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R38	△ 1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R39	△ 1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R40	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R41	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R42	1-216-049-11 s	METAL, CHIP 1K 5% 1/10W
R43	△ 1-216-077-00 s	METAL, CHIP 15K 5% 1/10W
R44	△ 1-216-077-00 s	METAL, CHIP 15K 5% 1/10W
R45	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R46	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R47	1-216-056-00 s	METAL, CHIP 2K 5% 1/10W
R47	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R47	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R47	1-216-059-00 s	METAL, CHIP 2.7K 5% 1/10W
R48	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R49	1-216-009-00 s	METAL, CHIP 22 5% 1/10W
R50	1-216-009-00 s	METAL, CHIP 22 5% 1/10W
R51	9-904-861-01 s	CARBON, CHIP 3.3M 1% 1/8W
R52	9-904-861-01 s	CARBON, CHIP 3.3M 1% 1/8W
R53	9-904-861-01 s	CARBON, CHIP 3.3M 1% 1/8W
R54	9-904-862-01 s	CARBON, CHIP 91K 1% 1/8W
R55	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R56	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R57	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R65	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R66	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R67	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W

(MAIN BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R68	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R69	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R70	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R71	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R72	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R73	1-216-093-00 s	METAL, CHIP 68K 5% 1/10W
R74	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R75	1-216-075-00 s	METAL, CHIP 12K 5% 1/10W
R76	1-216-093-00 s	METAL, CHIP 68K 5% 1/10W
R77	1-216-075-00 s	METAL, CHIP 12K 5% 1/10W
R78	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R79	△ 1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R80	△ 1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R81	1-216-105-00 s	METAL, CHIP 220K 5% 1/10W
R82	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R83	1-216-003-11 s	METAL, CHIP 12 5% 1/10W
R84	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R85	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R86	1-216-069-11 s	METAL, CHIP 6.8K 5% 1/10W
R87	1-216-308-00 s	METAL, CHIP 4.7 5% 1/10W
R88	1-216-049-11 s	METAL, CHIP 1K 5% 1/10W
R89	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R90	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R91	1-216-308-00 s	METAL, CHIP 4.7 5% 1/10W
R92	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R93	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R94	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R95	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R96	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R97	1-216-001-00 s	METAL, CHIP 10 5% 1/10W
RV1	△ 9-933-316-01 s	RES, VAR METAL 1K
RV2	△ 9-933-317-01 s	RES, VAR METAL 5K
RV3	△ 9-933-318-01 s	RES, VAR METAL 10K
RV4	9-933-319-01 s	RES, VAR METAL 200
RV5	9-933-317-01 s	RES, VAR METAL 5K
RV6	9-933-317-01 s	RES, VAR METAL 5K
RV7	9-933-319-01 s	RES, VAR METAL 200
RV8	9-933-320-01 s	RES, VAR METAL 500

SUB BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-589-701-11 s	MOUNTED CIRCUIT BOARD, SUB
C61	9-904-844-01 s	TANTALUM, CHIP 20% 10uF 16V
C62	9-904-844-01 s	TANTALUM, CHIP 20% 10uF 16V
C63	9-904-845-01 s	TANTALUM, CHIP 20% 22uF 10V
C64	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C65	9-904-844-01 s	TANTALUM, CHIP 20% 10uF 16V
C66	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C67	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C68	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C69	9-904-846-01 s	TANTALUM, CHIP 20% 4.7uF 10V
C70	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 50V
C71	1-164-346-11 s	CERAMIC, CHIP 1uF 16V
CN8	9-933-303-01 s	PIN, CONNECTOR 11P
D15	8-719-820-41 s	DIODE 1SS302
D16	9-904-842-01 s	DIODE HZK4ALLTR
D17	8-719-820-41 s	DIODE 1SS302
D18	9-904-843-01 s	DIODE HZK9CLTR
DL1	1-406-729-21 s	DELAY LINE 120ns
IC11	8-759-242-66 s	IC TC4W66F
L2	1-410-392-11 s	INDUCTOR, CHIP 82uH
LED1	8-719-950-44 s	DIODE GL-5LR40, RED
LED2	8-719-950-44 s	DIODE GL-5LR40, RED
Q15	8-729-927-87 s	TRANSISTOR 2SA1579RR
Q16	8-729-927-87 s	TRANSISTOR 2SA1579RR
Q17	8-729-117-72 s	TRANSISTOR 2SC4178
Q18	8-729-117-72 s	TRANSISTOR 2SC4178
Q19	8-729-117-72 s	TRANSISTOR 2SC4178
Q20	8-729-117-72 s	TRANSISTOR 2SC4178
Q21	8-729-117-72 s	TRANSISTOR 2SC4178
Q22	9-904-841-01 s	TRANSISTOR 2SC4102
Q23	9-904-841-01 s	TRANSISTOR 2SC4102
Q24	9-904-841-01 s	TRANSISTOR 2SC4102
Q25	8-729-927-87 s	TRANSISTOR 2SA1579RR
R101	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R102	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R103	1-216-080-00 s	METAL, CHIP 20K 5% 1/10W
R104	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R105	1-216-049-11 s	METAL, CHIP 1K 5% 1/10W
R106	1-216-083-00 s	METAL, CHIP 27K 5% 1/10W
R107	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R108	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R109	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R110	1-216-042-00 s	METAL, CHIP 510 5% 1/10W
R111	1-216-042-00 s	METAL, CHIP 510 5% 1/10W
R112	1-216-042-00 s	METAL, CHIP 510 5% 1/10W
R113	1-216-055-11 s	METAL, CHIP 1.8K 5% 1/10W
R114	1-216-055-11 s	METAL, CHIP 1.8K 5% 1/10W
R115	1-216-063-00 s	METAL, CHIP 3.9K 5% 1/10W
R116	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R117	1-216-042-00 s	METAL, CHIP 510 5% 1/10W
R118	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R119	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R120	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W

(SUB BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R121	1-216-038-11 s	METAL, CHIP 360 5% 1/10W
R122	1-216-042-00 s	METAL, CHIP 510 5% 1/10W
R123	1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R124	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R125	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R126	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R127	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R128	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R129	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R130	1-216-047-00 s	METAL, CHIP 820 5% 1/10W
R131	1-216-054-00 s	METAL, CHIP 1.6K 5% 1/10W
R132	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R133	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R134	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R135	1-216-091-00 s	METAL, CHIP 56K 5% 1/10W
R136	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R137	1-216-087-11 s	METAL, CHIP 39K 5% 1/10W
R138	1-216-133-00 s	METAL, CHIP 3.3M 5% 1/10W
R139	1-216-087-11 s	METAL, CHIP 39K 5% 1/10W
RV9	9-933-301-01 s	RES, VAR CARBON 2K
RV10	1-241-828-21 s	RES, ADJ METAL 500
RV11	9-933-301-01 s	RES, VAR CARBON 2K
RV12	1-216-741-11 s	RES, ADJ METAL 50K
RV13	9-933-302-01 s	RES, VAR CARBON 10K
S1	1-570-845-11 s	SWITCH, SLIDE

PACKING MATERIALS

Ref. No. or Q'ty	Part No.	SP Description
1pc	3-686-330-01 o	CUSHION, BOTTOM
1pc	3-686-331-01 o	CUSHION, TOP
1pc	3-686-332-01 o	INDIVIDUAL CARTON (FOR DXF-601)
1pc	3-686-333-01 o	INDIVIDUAL CARTON (FOR DXF-601CE)

DXF-601 (J, UC)
DXF-601CE (EK)
9-977-229-01

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